

**BOBBY JINDAL**  
GOVERNOR



**HAROLD LEGGETT, PH.D.**  
SECRETARY

**State of Louisiana**  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20050001  
Agency Interest No. 85793

Robert Hicks  
Director, Fossil Plant Operations  
Entergy Services, LLC  
Parkwood Two Bldg  
10055 Grogans Mill Rd MU T-PKWD-4  
The Woodlands, TX 77380

RE: Part 70 Operating Permit, Perryville Generating Station  
Entergy Louisiana LLC, Sterlington, Ouachita Parish, Louisiana

Dear Mr. Hicks:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2009.

Permit No.: 2160-00112-V3

Sincerely,

Cheryl Sonnier Nolan  
Assistant Secretary  
CSN: dcd  
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Perryville Generating Station**  
**Agency Interest No.: 85793**  
**Entergy Louisiana, LLC**  
**Sterlington, Ouachita Parish, Louisiana**

**I. Background**

Entergy Louisiana, LLC owns and operates the Perryville Generating Station, an existing electric generating station, in Ouachita Parish, near Sterlington, Louisiana. The simple-cycle unit began operation on May 14, 2001, and the combined-cycle units began operation on April 11 and April 14, 2002, respectively. Perryville Generating Station currently operates under Permit No. 2160-00112-V2 issued January 7, 2005 and Permit No. PSD-LA-655(M-2) issued January 7, 2005.

This is the Part 70 operating permit renewal for the facility.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by Entergy Louisiana LLC on February 21, 2005 requesting a Part 70 operating permit renewal. Additional information dated March 11, 2009, was also received.

**III. Description**

The Perryville Generating Station has two combined cycle power generators. These consist of a natural gas-fired combustion turbine, which is followed by a heat recovery steam generator (HRSG), which consists primarily of a steam turbine. In addition to the combustion turbine, duct burners are utilized to provide supplemental heat to the HRSG unit. Physically, as well as for permitting purposes, the duct burner emissions are combined with those of the combustion turbines, Emission Pts. 1-1 and 1-2, prior to treatment, while the steam turbine produces no emissions. The facility also has one simple cycle natural gas-fired combustion turbine, Emission Pt. 2-1, and a cooling tower, Emission Pt. 9-0.

The duct burners are equipped with low NO<sub>x</sub> burners. The combustion turbines are also regarded by LDEQ as low NO<sub>x</sub> devices. To further reduce emissions of nitrogen oxides, the combined cycle units, Emission Pts. 1-1 and 1-2, are equipped with selective catalytic reduction (SCR) units, which treat the exhaust from the combustion turbines and duct burners. Ammonia is injected to the SCR unit to facilitate the conversion of NO<sub>x</sub> to N<sub>2</sub>. Emissions of unreacted ammonia are assigned to the combustion turbines. Anhydrous ammonia is stored on-site in a 5000 gallon pressurized vessel.

Additional ancillary equipment includes a 500 kW emergency generator, a 180 hp diesel fire pump engine, a 10 MM BTU/hr fuel heater, and a number of diesel and lube oil storage tanks. This auxiliary equipment is permitted under insignificant activities.

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The combined cycle turbine units are typically used to supply base load, while the simple cycle unit is used to supply peak demand. The latter unit is limited to 6000 hours of operation annually. Perryville Generating Station is capable of generating 725 megawatts (MW) of electrical power.

BACT has been employed at the Perryville Generating Station. Based on the BACT analysis presented in PSD-LA-655, the technologies selected to control PM<sub>10</sub>, NO<sub>X</sub>, CO, and VOC emissions from the combustion sources were the use of low NO<sub>X</sub> burners, SCR, good combustion practices, and clean burning natural gas as fuel. As allowed in PSD-LA-655, SCR was applied only to the combined cycle turbines and duct burners and not to the simple cycle turbine, while the remaining technologies were applied to all the combustion sources. Drift eliminators were determined as BACT for PM<sub>10</sub> emissions from the cooling tower. While the currently defined BACT still applies to all the affected units, in the case of the combustion devices, turbines and duct burners, separate BACT based limits are needed to account for SU/SD.

In the case of the combined cycle units, the SCR units are not active until the exhaust stream temperature reaches the minimum required for SCR. In addition, the combustion turbines generate higher emissions during SU than periods of normal operation. The actual values for the proposed revisions in maximum hourly emission rates for NO<sub>X</sub>, CO and VOC (to reflect SU/SD) are based on CEMS data and/or manufacturer's recommendations.

The simple cycle combustion turbine is not equipped with SCR and is, therefore, not subject to the inherent control device limitation evident with the combined cycle units. However, manufacturer's guidelines and CEMS data do indicate significantly higher emissions of NO<sub>X</sub>, CO, and VOC for this unit during SU/SD.

Normal and SU/SD operational modes are defined as follows:

Normal Operational Mode – Any period of actual unit operation that is not SU/SD (or an upset or malfunction condition). For normal operations, the permitted maximum hourly and average hourly emission rates are equal.

SU/SD Operational Mode – For either the combined cycle or simple cycle units, startup is defined as the time from initial firing to approximately 100 MW which takes approximately 2 to 6 hours depending on type of startup (i.e. cold, warm, or hot). Shutdown is defined from the time the unit is below approximately 100 MW until there is no firing, which takes approximately 1 to 2 hours.

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When the combined cycle turbine reaches approximately 100 MW, the SCR unit can be used to reduce NO<sub>x</sub>. Exhaust gas from the turbine is always directed to the HRSG unit where the energy in the exhaust gas is converted to steam, which is piped to the steam turbine. The duct burners are used to provide supplemental heat in the HRSG as needed. The duct burners are only used during periods of normal operation, when the SCR unit is active.

With this application, Entergy Louisiana, LLC proposes to renew the Part 70 permit for the Perryville Generating Station. No physical changes or increases in actual emissions are proposed in this modification. All changes in emissions levels are due to addition errors made in the previously effective permit.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	297.70	297.70	-
SO <sub>2</sub>	25.70	25.60	- 0.10
NO <sub>x</sub>	723.60	723.60	-
CO	1195.20	1195.20	-
VOC	87.55	87.55	-

LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Ammonia	220.00	220.00	-
Formaldehyde	6.19	6.19	-
Total	226.19	226.19	-

Non-TAP VOC (TPY): 81.36

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, and New Source Performance Standards (NSPS). Prevention of Significant Deterioration (PSD) and NESHAP do not apply.

This facility is a major source of toxic air pollutants (TAP). Ammonia (Class III) is emitted in an amount that exceeds the major source threshold. Ammonia (Class III) and

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Formaldehyde (Class I) are emitted in amounts that are in excess of their respective Minimum Emission Rates (MER).

TAP emissions are emitted by five point sources at this facility: 2-1 – Simple Cycle Turbine No. 3 (EQT 3), 1-1 DB/HRSG – Duct Burner/Heat Recovery Steam Generator (EQT 5), 1-2 DB/HRSG – Duct Burner/Heat Recovery Steam Generator (EQT 6), 1-1 GT – Gas Turbine (EQT 7), and 1-2 GT – Gas Turbine (EQT 8). Electric utility steam-generating units (EUSGUs) are not required to incorporate Maximum Achievable Control Technology (MACT) per LAC 33:III.5105.B.2. EQT 3, EQT 5, and EQT 6 are EUSGUs and are therefore not subject to the requirements of MACT. Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirement to address MACT per LAC 33:III.5105.B.3.a. Formaldehyde emissions from EQT 7 and EQT 8 are generated by combustion of natural gas, a Group 1 virgin fossil fuel, and are exempted from the requirement to address MACT. MACT is not required for emissions of any Class III TAP, such as ammonia.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

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**VII. Effects on Ambient Air**

Emissions associated with the proposed renewal were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

**VIII. General Condition XVII Activities**

None

**IX. Insignificant Activities**

ID No.:	Description	Citation
1	Diesel Engine, Emergency Generator*	LAC 33:III.501.B.5.B.32
2	Diesel Engine, Fire Pump*	LAC 33:III.501.B.5.B.32
3	Fuel Heater, < 10 MM BTU/hr	LAC 33:III.501.B.5.A.1
4	Storage Tanks (4), Lube Oil, <10,000 gallons each	LAC 33:III.501.B.5.A.3
5	Storage Tanks (2), Diesel Fuel, 200 gallons each	LAC 33:III.501.B.5.A.2

\*These items currently qualify as insignificant activities. Any replacement of these items by new engines that are affected sources under either NSPS III or JJJJ will require a permit modification and a removal of the sources from the insignificant activities list.

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	509	9	11	13	15	2103	2104*	2107	2111	2115	2116*	2123	22	29*	51*	53*	56	59*
UNF 1	Plant Wide	1	1	1	1	1													1	1
PCS 1	1-1 - Exhaust Stack - Gas Turbine/HRSG No. 1			1		1	1													
PCS 2	1-2 - Exhaust Stack - Gas Turbine/HRSG No. 2				1	1	1													
EQT 3	2-1 - Simple Cycle Gas Turbine No. 3			1	1	1	1												2	
EQT 4	9-00 - Cooling Tower				1															
EQT 5	1-1 DB/HRSG - Duct Burner/HRSG					1													2	
EQT 6	1-2 DB/HRSG - Duct Burner/HRSG						1											2		
EQT 7	1-1 GT - Gas Turbine						1											2		
EQT 8	1-2 GT - Gas Turbine						1				1							2		
FUG 1	11-00 Fugitive Emissions, Natural Gas																			

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.  
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.: Description	40 CFR 60 NSPS							40 CFR 61							40 CFR 63							40 CFR							
	A	Da	Db	Dc	GG	KKK	A	J	V	A	F	G	YYYY	52*	64	68	72	75											
Plant Wide																													
PCS 1 No. 1	1-1 - Exhaust Stack - Gas Turbine/HRSG																												
PCS 2 No. 2	1-2 - Exhaust Stack - Gas Turbine/HRSG																												
EQT 3	2-1 - Simple Cycle Gas Turbine No. 3	1					1																						
EQT 4	9-00 - Cooling Tower																												
EQT 5	1-1 DB/HRSG - Duct Burner/HRSG	1	1																										
EQT 6	1-2 DB/HRSG - Duct Burner/HRSG	1	1																										
EQT 7	1-1 GT - Gas Turbine	1					1																						
EQT 8	1-2 GT - Gas Turbine	1					1																						
FUG 1	11-00 Fugitive Emissions, Natural Gas																												

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### **KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.  
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- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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 Energy Louisiana, LLC  
 Sterlington, Ouachita Parish, Louisiana

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
PCS 1	40 CFR 64 – Compliance Assurance Monitoring	EXEMPT. Sources are subject to the requirements of the Acid Rain Program. [40 CFR 64.2(b)(iii)]
PCS 2		
EQT 3	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.Chapter 51]	EXEMPT. Sources are electric utility steam-generating units. [LAC 33:III.5105.B.2]
EQT 5		
EQT 6		
EQT 7	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.Chapter 51]	EXEMPT. MACT is not required for emissions of Ammonia, a Class III TAP. [LAC 5109.A.1]
EQT 8		Formaldehyde emissions result from the combustion of natural gas, a Group 1 Virgin Fossil Fuel. [LAC 33:III.5105.B.3.a]
	NESHAP YYYY - National Emission Standard for Hazardous Air Pollutants for Stationary Combustion Turbines	DOES NOT APPLY. Source is not located at a major source of Hazardous Air Pollutants. [40 CFR 63.6080]
PCS 1	Control of Emissions of Sulfur Dioxide [LAC 33:III.1503]	EXEMPT. Sources emit less than 100 TPY of SO <sub>2</sub> . Permittee shall maintain records showing annual potential SO <sub>2</sub> emissions.
PCS 2		[LAC 33:III.1513.C]
EQT 3		

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The above table provides explanation for either the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## **40 CFR PART 70 GENERAL CONDITIONS**

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

## **40 CFR PART 70 GENERAL CONDITIONS**

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

## 40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;

## 40 CFR PART 70 GENERAL CONDITIONS

4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC<sup>1</sup> 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

## 40 CFR PART 70 GENERAL CONDITIONS

- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
  1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.  
The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated February 21, 2005, as well as additional information dated March 11, 2009.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1; 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
    - 1. Report by June 30 to cover January through March
    - 2. Report by September 30 to cover April through June
    - 3. Report by December 31 to cover July through September
    - 4. Report by March 31 to cover October through December
  - D. Each report submitted in accordance with this condition shall contain the following information:
    - 1. Description of noncomplying emission(s);
    - 2. Cause of noncompliance;
    - 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
    - 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
    - 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
  - E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found..
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**General Information**

AI ID: 85793 Entergy Louisiana LLC - Perryville Generating Station

Activity Number: PER20050001

Permit Number: 2160-00112-V3

Air - Title V Regular Permit Renewal

Also Known As:	ID	Name	User Group	Start Date
	2160-00112	Entergy Louisiana LLC - Perryville Generating Station	CDS Number	03-30-2000
LAR000048652		Entergy Louisiana LLC - Perryville Generating Station	Hazardous Waste Notification	03-13-2002
LA0113557		WPC File Number	LPDES Permit #	06-25-2003
LAG670046		LPDES #	LPDES Permit #	06-29-2000
LAR10D164		LPDES #	LPDES Permit #	09-09-2005
		Entergy Louisiana LLC - Perryville Generating Station	Multimedia	12-31-2005
55620		ORIS Code	ORIS Code	09-16-2008
		Priority 2 Emergency Site	Priority 2 Emergency Site	07-25-2006
84588		Cleco - Perryville Power Station	TEMPO Merge	04-19-2004
84814		Cleco Midstream Resources LLC Perryville Power Station	TEMPO Merge	05-23-2001
		Water Quality Certification #	Water Permitting	04-11-2000
			Main FAX:	9856533447
			Main Phone:	9856533445
Physical Location:	11140 Hwy 165 N Perryville, LA 71280			
Mailing Address:	101 Boardman Ave Sterlington, LA 71280			
Location of Front Gate:	32° 4' 34" latitude, 92° 1' 3" longitude, Coordinate Method: Lat. Long. - DMS, Coordinate Datum: NAD83			
Related People:	Name	Mailing Address	Phone (Type)	Relationship
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	rcernig@entergy.con	Emission Inventory Contact for	
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	3186653232 (WF)	Accident Prevention Billing Party for	
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	3186653203 (WP)	Accident Prevention Billing Party for	
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	rcernig@entergy.con	Accident Prevention Billing Party for	
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	3186653232 (WF)	Haz. Waste Billing Party for	
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	3186653203 (WP)	Haz. Waste Billing Party for	
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	3186653203 (WP)	Emission Inventory Contact for	
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	3186653232 (WF)	Emission Inventory Contact for	
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	rcernig@entergy.con	Accident Prevention Contact for	
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	3186653203 (WP)	Accident Prevention Contact for	
Ron Cernigliaro	PO Box 647 Sterlington, LA 701280647	3186653232 (WF)	Accident Prevention Contact for	
Ron Cernigliaro	PO Box 589 Sterlington, LA 712800589	rcernig@entergy.con	Haz. Waste Billing Party for	
Sam Charlton	PO Box 589 Sterlington, LA 712800589		Responsible Official for	
Brent Croom	PO Box 589 Sterlington, LA 712800589		Air Permit Contact For	
Firdina Hyman	639 Loyola Ave New Orleans, LA 70113	5045767050 (WP)	Responsible Official for	
Firdina Hyman	639 Loyola Ave New Orleans, LA 70113	fhymann@entergy.co	Responsible Official for	

### General Information

AI ID: 85793 Entergy Louisiana LLC - Perryville Generating Station

Activity Number: PER20050001

Permit Number: 2160-00112-V3

Air - Title V Regular Permit Renewal

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Firdina Hyman	639 Loyola Ave New Orleans, LA 70113	5045786936 (WF)	Responsible Official for
	Charlie Van Hoof	2005 Vandeventer Ave Alexandria, LA 71303	318421791 or 3188	Water Permit Contact For
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Entergy Louisiana LLC	101 Boardman Ave Sterlington, LA 71280		Operates
	Entergy Louisiana LLC	101 Boardman Ave Sterlington, LA 71280		Owns
	Entergy Louisiana LLC	101 Boardman Ave Sterlington, LA 71280		Emission Inventory Billing Party
	Entergy Louisiana LLC	101 Boardman Ave Sterlington, LA 71280		Air Billing Party for
	Entergy Louisiana LLC	101 Boardman Ave Sterlington, LA 71280		Solid Waste Billing Party for
	Entergy Louisiana LLC	101 Boardman Ave Sterlington, LA 71280		Water Billing Party for

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-0775 or email your changes to facupdate@la.gov.

## INVENTORIES

**AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station**  
**Activity Number: PER20050001**  
**Permit Number: 2160-00112-V3**  
**Air - Title V Regular Permit Renewal**

### Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Exhaust Stack - Gas Turbine/HRSG No. 1</b>						
EQT 0005	1-1 DB/HRSG - Duct Burner/Heat Recovery Steam Generator		310 MM BTU/hr			8760 hr/yr
EQT 0007	1-1 GT - Gas Turbine	2000 MM BTU/hr				8760 hr/yr
<b>Exhaust Stack - Gas Turbine/HRSG No. 2</b>						
EQT 0006	1-2 DB/HRSG - Duct Burner/Heat Recovery Steam Generator		310 MM BTU/hr			8760 hr/yr
EQT 0008	1-2 GT - Gas Turbine	2000 MM BTU/hr				8760 hr/yr
<b>Entire Facility</b>						
EQT 0003	2-1 - Exhaust Stack-Simple Cycle Gas Turbine No. 3	2000 MM BTU/hr				6000 hr/yr
EQT 0004	9-00 - Cooling Tower					8760 hr/yr
FUG 0001	11-00 - Fugitive Emissions, Natural Gas					8760 hr/yr

### Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
<b>Exhaust Stack - Gas Turbine/HRSG No. 1</b>							
EQT 0005	1-1 DB/HRSG - Duct Burner/Heat Recovery Steam Generator	72.7	962000	16.75		175	185
EQT 0007	1-1 GT - Gas Turbine	72.7	962000	16.75		175	185
<b>Exhaust Stack - Gas Turbine/HRSG No. 2</b>							
EQT 0006	1-2 DB/HRSG - Duct Burner/Heat Recovery Steam Generator	72.7	962000	16.75		175	185
EQT 0008	1-2 GT - Gas Turbine	72.7	962000	16.75		175	185
<b>Entire Facility</b>							
EQT 0003	2-1 - Exhaust Stack-Simple Cycle Gas Turbine No. 3	177	2351300	16.8		110	1144
EQT 0004	9-00 - Cooling Tower	28	999999	28		47	95

### Relationships:

#### Subject Item Groups:

ID	Group Type	Group Description
GRP 0002	Equipment Group	CS - Combustion Sources (Combustion Turbines and Duct Burners)
GRP 0004	Scenario	Nos. 1 & 2 SUSD - SU/SD1 Gas Turbine/HRSG Nos. 1 and 2
GRP 0005	Scenario	No. 3 SUSD - SU/SD2 Simple Cycle Gas Turbine No. 3
GRP 0006	Scenario	1-1 GT Simple Cycle - 1-1 GT - Gas Turbine (Simple Cycle Mode)
GRP 0007	Scenario	1-2 GT Simple Cycle - 1-2 GT - Gas Turbine (Simple Cycle Mode)
GRP 0008	Scenario	1-1 DB/HRSG Combined Cycle - 1-1 DB/HRSG (Combined Cycle Mode)

## INVENTORIES

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
 Activity Number: PER20050001  
 Permit Number: 2160-00112-V3  
 Air - Title V Regular Permit Renewal

### Subject Item Groups:

ID	Group Type	Group Description
GRP 0009	Scenario	1-2 DB/HRSG Combined Cycle - 1-2 DB/HRSG (Combined Cycle Mode)
PCS 0001	Process Group	1-1 - Exhaust Stack - Gas Turbine/HRSG No. 1
PCS 0002	Process Group	1-2 - Exhaust Stack - Gas Turbine/HRSG No. 2
UNF 0001	Unit or Facility Wide	Entire Facility - Entire Facility

### Group Membership:

ID	Description	Member of Groups
EQT 0003	2-1 - Exhaust Stack-Simple Cycle Gas Turbine No. 3	GRP0000000002, GRP0000000005
EQT 0005	1-1 DB/HRSG - Duct Burner/Heat Recovery Steam Generator	GRP0000000008, PCS0000000001
EQT 0006	1-2 DB/HRSG - Duct Burner/Heat Recovery Steam Generator	GRP0000000009, PCS0000000002
EQT 0007	1-1 GT - Gas Turbine	GRP0000000006, PCS0000000001
EQT 0008	1-2 GT - Gas Turbine	GRP0000000007, PCS0000000002
PCS 0001	1-1 - Exhaust Stack - Gas Turbine/HRSG No. 1	GRP0000000002, GRP0000000004
PCS 0002	1-2 - Exhaust Stack - Gas Turbine/HRSG No. 2	GRP0000000002, GRP0000000004

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

### Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
1420	1420 C) Electric Power Gen. (Natural Gas Fired) (Rated Capacity)	800	MW

### SIC Codes:

4911	Electric services	AI 85793
4911	Electric services	UNF 001

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station

Activity Number: PER20050001

Permit Number: 2160-00112-V3

**Air - Title V Regular Permit Renewal**

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
<b>Entire Facility</b>															
EQT 0003 2-1	28.00	28.00	84.00	58.00	58.00	174.00	18.00	54.00	2.00	6.00	2.80	2.80	2.80	8.40	
EQT 0004 9-00								3.30	3.30	14.50					
FUG 0001 11-00													0.04	0.16	0.15
GRP 0004 Nos. 1 & 2 SUSD	1163			263.5											59.5
GRP 0005 No. 3 SUSD	1163			208.5											57.6
GRP 0006 1-1 GT Simple Ctr	102.00	102.00	446.76	31.70	31.70	138.85	23.00	100.74	2.00	2.00	8.76	2.80	2.80	12.26	
GRP 0007 1-2 GT Simple Ctr	102.00	102.00	446.76	31.70	31.70	138.85	23.00	100.74	2.00	2.00	8.76	2.80	2.80	12.26	
GRP 0008 1-1 DB/HRSG Con	24.80	24.80	108.62	31.00	31.00	135.78	3.10	13.58	0.19	0.19	0.81	6.20	6.20	27.16	
GRP 0009 1-2 DB/HRSG Con	24.80	24.80	108.62	31.00	31.00	135.78	3.10	13.58	0.19	0.19	0.81	6.20	6.20	27.16	
PCS 0001 1-1	126.80	126.80	555.60	62.70	62.70	274.80	26.20	114.60	2.23	2.23	9.80	9.00	9.00	39.50	
PCS 0002 1-2	126.80	126.80	555.60	62.70	62.70	274.80	26.20	114.60	2.23	2.23	9.80	9.00	9.00	39.50	

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station

Activity Number: PER20050001

Permit Number: 2160-00112-V3

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0003 2-1	Formaldehyde	0.53	0.53	1.59
GRP 0006 1-1 GT Simple Cycle	Ammonia	<b>25.10</b>	<b>25.10</b>	<b>109.94</b>
	Formaldehyde	0.53	0.53	2.30
GRP 0007 1-2 GT Simple Cycle	Ammonia	<b>25.10</b>	<b>25.10</b>	<b>109.94</b>
	Formaldehyde	0.53	0.53	2.30
PCS 0001 1-1	Ammonia	<b>25.10</b>	<b>25.10</b>	<b>110.00</b>
	Formaldehyde	0.53	0.53	2.30
PCS 0002 1-2	Ammonia	<b>25.10</b>	<b>25.10</b>	<b>110.00</b>
	Formaldehyde	0.53	0.53	2.30
UNF 0001 Entire Facility	Ammonia			220.00
	Formaldehyde			6.19

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### PCS 0001 1-1 - Exhaust Stack - Gas Turbine/HRSG No. 1

Group Members: EQT 0005EQT 0007

- 1 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified  
Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 2 [LAC 33:III.1513.C] Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.  
Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO2 / ton 100% H2SO4, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H2SO4 was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.
- 3 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 4 [LAC 33:III.507.H.1.a] BACT limit on exhaust gas concentration of VOC (only applies during normal operations as defined in this permit). VOC, Total <= 1.4 ppmv (dry basis).
- 5 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: Hourly average BACT limit on exhaust gas concentration of carbon monoxide (only applied during normal operations as defined in this permit). Carbon monoxide <= 25 ppmv (dry basis).
- 6 [LAC 33:III.509.J.3] Which Months: All Year Statistical Basis: Hourly average BACT limit on exhaust gas concentration of nitrogen oxides (only applies during normal operations as defined in this permit). Nitrogen oxides <= 4.5 ppmv (dry basis).
- 7 [LAC 33:III.509.J.3] Which Months: All Year Statistical Basis: Hourly average
- 8 [LAC 33:III.509.J.3]

### PCS 0002 1-2 - Exhaust Stack - Gas Turbine/HRSG No. 2

Group Members: EQT 0006EQT 0008

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### PCS 0002 1-2 - Exhaust Stack - Gas Turbine/HRSG No. 2

- 9 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel)
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO<sub>2</sub> / ton 100% H<sub>2</sub>SO<sub>4</sub>, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H<sub>2</sub>SO<sub>4</sub> was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.
- Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
- BACT limit on exhaust gas concentration of nitrogen oxides (only applies during normal operations as defined in this permit). Nitrogen oxides <= 4.5 ppmv (dry basis).
- Which Months: All Year Statistical Basis: Hourly average BACT limit on exhaust gas concentration of VOC (only applies during normal operations as defined in this permit). VOC, Total <- 1.4 ppmv (dry basis).
- Which Months: All Year Statistical Basis: Hourly average BACT limit on exhaust gas concentration of carbon monoxide (only applied during normal operations as defined in this permit). Carbon monoxide <= 25 ppmv (dry basis).
- Which Months: All Year Statistical Basis: Hourly average

### Group: PCS 0001 Exhaust Stack - Gas Turbine/HRSG No. 1

Group Members: EQT 0005EQT 0007

### EQT 0005 1-1 DB/HRSG - Duct Burner/Heat Recovery Steam Generator

- 17 [40 CFR 60.42Da(a)(1)] Particulate matter (10 microns or less) <= 0.03 lb/MMBTU (13 ng/J) heat input. Subpart Da. [40 CFR 60.42Da(a)(1)] Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### Group: PCS 0001    Exhaust Stack - Gas Turbine/HRSG No. 1

#### EQT 0005 1-1 DB/HRSG - Duct Burner/Heat Recovery Steam Generator

- 18 [40 CFR 60.42Da(b)] Opacity <= 20 percent, except for one 6-minute period per hour of not more than 27% opacity. Subpart Da. [40 CFR 60.42Da(b)]  
Which Months: All Year Statistical Basis: Six-minute average  
Sulfur dioxide <= 0.80 lb/MMBTU (340 ng/J) heat input. Subpart Da. [40 CFR 60.43Da(b)(1)]  
Which Months: All Year Statistical Basis: Thirty-day rolling average  
Sulfur dioxide >= 0 % reduction when emissions are less than 86 ng/J (0.20 lb/MMBTU) heat input. Subpart Da.  
Which Months: All Year Statistical Basis: Thirty-day rolling average  
Nitrogen oxides <= 1.6 lb/MWh (200 ng/J) heat input. Subpart Da. [40 CFR 60.44Da(d)(1)]  
Which Months: All Year Statistical Basis: Thirty-day rolling average  
Apply to DEQ for a commercial demonstration permit when proposing to demonstrate an emerging technology. Subpart Da. [40 CFR 60.47Da(a)]  
Comply with the nitrogen oxides emission standards under 40 CFR 60.44Da at all times except during periods of startup, shutdown, and malfunction. Subpart Da. [40 CFR 60.48Da(c)]  
Comply with the particulate matter emission standards under 40 CFR 60.42Da at all times except during periods of startup, shutdown, or malfunction. Subpart Da. [40 CFR 60.48Da(c)]  
During emergency conditions in the principal company, do not operate an affected facility with a malfunctioning flue gas desulfurization system unless sulfur dioxide emissions are minimized in accordance with the requirements of 60.46Da(d)(1) through (d)(3). Subpart Da. [40 CFR 60.48Da(d)]  
Show compliance with the nitrogen oxides standards by completing a separate performance test at the end of each boiler operating day after the initial performance test, and calculating a new 30-day average emission rate. Subpart Da. [40 CFR 60.48Da(e)]  
Show compliance with the sulfur dioxide standards by completing a separate performance test at the end of each boiler operating day after the initial performance test, and calculating a new 30-day average emission rate and percent reduction. Subpart Da. [40 CFR 60.48Da(e)]  
Schedule the initial performance test so that the first boiler operating day of the 30 successive boiler operating days is completed within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of the facility. Subpart Da. [40 CFR 60.48Da(f)]  
Determine compliance with the SO<sub>2</sub> and NO<sub>x</sub> emission standards by calculating the arithmetic average of all hourly emission rates for SO<sub>2</sub> and NO<sub>x</sub> for the 30 successive boiler operating days, except for data obtained during startup, shutdown, malfunction (NO<sub>x</sub> only), or emergency conditions (SO<sub>2</sub> only). Subpart Da. [40 CFR 60.48Da(g)(1)]  
Determine compliance with particulate matter emission limitations by calculating the arithmetic average of all hourly emission rates for particulate matter each boiler operating day, except for data obtained during startup, shutdown, and malfunction. Subpart Da. [40 CFR 60.48Da(g)(3)]

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### Group: PCS 0001 Exhaust Stack - Gas Turbine/HRSG No. 1

#### EQT 0005 1-1 DB/HRSG - Duct Burner/Heat Recovery Steam Generator

- 31 [40 CFR 60.48Da(l)] Calculate NOx emissions as  $1.194 \times 10^{-7}$  lb/scf-ppm times the average hourly NOx output concentration in ppm (measured according to the provisions of 40 CFR 60.49Da(c)), times the average hourly flow rate (measured is scfh, according to the provisions of 40 CFR 60.49Da(l) or 60.49Da(m)), divided by the average hourly gross energy output (measured according to the provisions of 40 CFR 60.49Da(k)). Alternatively, for oil-fired and gas-fired units, NOx emissions may be calculated by multiplying the average hourly NOx emission rate in lb/MMBtu (measured by the CEMS required under 40 CFR 60.49Da(c) and (d)), by the hourly heat input rate (measured according to the provisions of 40 CFR 60.49Da(n)) and dividing by the result by the average gross energy output (measured according to the provisions of 40 CFR 60.49Da(k)).  
Subpart Da. [40 CFR 60.48Da(l)]
- 32 [40 CFR 60.48Da(j)] Determine compliance with the emission limits for NOx required by 40 CFR 60.44Da(a) by conducting the performance test required under 40 CFR 60.8 as specified in 40 CFR 60.48Da(j)(1), or using the continuous emission monitoring system specified under 40 CFR 60.49Da and meeting the requirements of 40 CFR 60.49Da as specified in 40 CFR 60.48Da(j)(2). Subpart Da. [40 CFR 60.48Da(j)]
- 33 [40 CFR 60.48Da(k)] Determine compliance with the emission limitation for NOx required by 40 CFR 60.44Da(d)(1) or (e)(1) by using either of the procedures specified in 40 CFR 60.48Da(k)(1) and (k)(2). Subpart Da. [40 CFR 60.48Da(k)]
- 34 [40 CFR 60.48Da(m)] Calculate SO2 emissions as  $1.660 \times 10^{-7}$  lb/scf-ppm times the average hourly SO2 output concentration in ppm (measured according to the provisions of 40 CFR 60.49Da(b)), times the average hourly flow rate (measured according to the provisions of 40 CFR 60.49Da(l) or 40 CFR 60.49Da(m)), divided by the average hourly gross energy output (measured according to the provisions of 40 CFR 60.49Da(k)). Alternatively, for oil-fired and gas-fired units, SO2 emissions may be calculated by multiplying the hourly SO2 emission rate (in lb/MMBtu), measured by the CEMS required under 40 CFR 60.49Da, by the hourly heat input rate (measured according to the provisions of 40 CFR 60.49Da(n)), and dividing the result by the average gross energy output (measured according to the provisions of 40 CFR 60.49Da(k)). Subpart Da. [40 CFR 60.48Da(m)]
- 35 [40 CFR 60.49Da(d)] Oxygen or Carbon dioxide monitored by CMS continuously. Monitor the oxygen or carbon dioxide content of the flue gases at each location where sulfur dioxide or nitrogen oxides emissions are monitored. Subpart Da. [40 CFR 60.49Da(d)]
- 36 [40 CFR 60.49Da(d)] Which Months: All Year Statistical Basis: One-hour average Oxygen or Carbon dioxide recordkeeping by electronic or hard copy continuously. Record the oxygen or carbon dioxide content of the flue gases at each location where sulfur dioxide or nitrogen oxides emissions are monitored. Subpart Da. [40 CFR 60.49Da(d)]
- 37 [40 CFR 60.49Da(f)(1)] Obtain emission data for at least 18 hours in at least 22 out of 30 successive boiler operating days. If this minimum data requirement cannot be met with a continuous monitoring system, supplement emission data with other monitoring systems approved by DEQ or the reference methods and procedures as described in 40 CFR 60.49Da(h). Subpart Da. [40 CFR 60.49Da(f)(1)]
- 38 [40 CFR 60.49Da(s)] Submit plan: Due to DEQ for approval of a unit-specific monitoring plan for each monitoring system, at least 45 days before commencing certification testing of the monitoring systems. Address in the plan the requirements in 40 CFR 60.49Da(s)(1) through (6). Subpart Da. [40 CFR 60.49Da(s)]
- 39 [40 CFR 60.50Da(a)] Use as reference methods and procedures the methods specified in 40 CFR 60Da, Appendix A or the methods and procedures as specified in 40 CFR 60.50Da, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart Da. [40 CFR 60.50Da(a)]
- 40 [40 CFR 60.50Da(b)] Determine compliance with the particulate matter standards in 40 CFR 60.42Da using the methods and procedures specified in 40 CFR 60.50Da(b)(1) through (b)(3). Subpart Da. [40 CFR 60.50Da(b)]

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### Group: PCS 0001    Exhaust Stack - Gas Turbine/HRSG No. 1

#### EQT 0005 1-1 DBI/HRSG - Duct Burner/Heat Recovery Steam Generator

- 41 [40 CFR 60.50Da(c)] Determine compliance with the sulfur dioxide standards in 40 CFR 60.43Da using the methods and procedures specified in 40 CFR 60.50Da(c)(1) through (c)(5). Subpart Da. [40 CFR 60.50Da(c)]
- 42 [40 CFR 60.50Da(d)] Determine compliance with the nitrogen oxides standard in 40 CFR 60.44Da using the methods and procedures specified in 40 CFR 60.50Da(d)(1) and (d)(2). Subpart Da. [40 CFR 60.50Da(d)]
- 43 [40 CFR 60.51Da(a)] Submit the performance test data from the initial performance test and subsequent performance test and from the performance evaluation of the continuous monitors (including the transmissometer). Subpart Da. [40 CFR 60.51Da(a)]
- 44 [40 CFR 60.51Da(b)] Submit report. Due semiannually for each six-month period. Submit the information specified in 40 CFR 60.51Da(b)(1) through (b)(9) for each 24-hour period. Subpart Da. [40 CFR 60.51Da(b)]
- 45 [40 CFR 60.51Da(c)] Submit report. Due semiannually for each six-month period. If the minimum quantity of emission data as required by 40 CFR 60.49Da is not obtained for any 30 successive boiler operating days, report the information specified in 40 CFR 60.51Da(c)(1) through (c)(5), obtained under the requirements of 40 CFR 60.48Da(h), for that 30-day period. Subpart Da. [40 CFR 60.51Da(c)]
- 46 [40 CFR 60.51Da(d)] Submit a signed statement if any standards under 40 CFR 60.43Da are exceeded during emergency conditions because of control system malfunction. Indicate if emergency conditions existed and requirements under 40 CFR 60.48Da(d) were met during each period. List the time periods the emergency condition existed; the electrical output and demand on the electric utility system and the affected facility; the amount of power purchased from interconnected neighboring utility companies during the emergency period; the percent reduction in emissions achieved; the atmospheric emission rate (ng/J) of the pollutant discharged; and the actions taken to correct control system malfunction. Submit semiannually for each six-month period. Subpart Da. [40 CFR 60.51Da(d)]
- 47 [40 CFR 60.51Da(f)] Submit a signed statement indicating if any changes were made in operation of the emission control system during periods of data unavailability, for any periods for which opacity, sulfur dioxide or nitrogen oxides emissions data are not available. Submit semiannually for each six-month period. Subpart Da. [40 CFR 60.51Da(f)]
- 48 [40 CFR 60.51Da(h)] Submit a signed statement indicating whether the required continuous monitoring system calibration, span, and drift checks or other periodic audits have or have not been performed as specified; the data used to show compliance was or was not obtained in accordance with approved methods and procedures of 40 CFR 60 and is representative of plant performance; the minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors that were unavoidable; and compliance with the standards has or has not been achieved during the reporting period. Submit semiannually for each six-month period. Subpart Da. [40 CFR 60.51Da(h)]
- 49 [40 CFR 60.51Da(i)] Submit excess emissions report. Due quarterly. Submit opacity levels in excess of the applicable opacity standard and the date of such excesses. Subpart Da. [40 CFR 60.51Da(i)]
- 50 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified
- 51 [LAC 33:III.509.J.3] For the duct burners only: BACT limit on VOC emissions. VOC, Total <= 0.02 lb/MMBTU.  
Which Months: All Year Statistical Basis: Hourly average
- 52 [LAC 33:III.509.J.3] For the duct burners only: BACT limit on carbon monoxide formation. Carbon monoxide <= 0.08 lb/MMBTU.  
Which Months: All Year Statistical Basis: Hourly average

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### Group: PCS 0001 Exhaust Stack - Gas Turbine/HRSG No.1

#### EQT 0005 1-1 DB/HRSG - Duct Burner/Heat Recovery Steam Generator

53 [LAC 33.III.509.J.3]

For the duct burners only: BACT limit on particulate matter formation (ten microns or less). Particulate matter (10 microns or less) <= 0.01 lb/MMBTU.

Which Months: All Year Statistical Basis: Hourly average

54 [LAC 33.III.509.J.3]

For the duct burners only: BACT limit on nitrogen oxide formation. Nitrogen oxides <= 0.10 lb/MMBTU.

Which Months: All Year Statistical Basis: Hourly average

#### EQT 0007 1-1 GT - Gas Turbine

55 [40 CFR 60.332(a)(1)]

Nitrogen oxides <= 0.0075 % by volume at 15% oxygen and on a dry basis in gases discharged to the atmosphere. Use analytical methods and procedures that are accurate to within 5 percent and are approved by DEQ to determine the nitrogen content of the fuel being fired per 40 CFR 60.335(a). Subpart GG. [40 CFR 60.332(a)(1)]

Which Months: All Year Statistical Basis: None specified

56 [40 CFR 60.333(a)]

Option 1 or 2: Sulfur dioxide <= 0.015 % by volume at 15 percent oxygen and on a dry basis in gases discharged to the atmosphere. Subpart GG. [40 CFR 60.333(a)]

Which Months: All Year Statistical Basis: None specified

57 [40 CFR 60.333(b)]

Option 2 of 2: Fuel sulfur content <= 0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]

Which Months: All Year Statistical Basis: None specified

58 [40 CFR 60.334(a)]

Ratio monitored by CMS continuously, except as specified in 40 CFR 60.334(b). Monitor the ratio of water or steam to fuel being fired in the turbine. Subpart GG. [40 CFR 60.334(a)]

59 [40 CFR 60.334(a)]

Ratio recordkeeping by CMS continuously. Record the ratio of water or steam to fuel being fired in the turbine. Subpart GG. [40 CFR 60.334(a)]

60 [40 CFR 60.334(a)]

Fuel recordkeeping by CMS continuously. Record fuel consumption. Subpart GG. [40 CFR 60.334(a)]

61 [40 CFR 60.334(a)]

Fuel monitored by CMS continuously, except as specified in 40 CFR 60.334(b). Monitor fuel consumption. Subpart GG. [40 CFR 60.334(a)]

Which Months: All Year Statistical Basis: None specified

62 [40 CFR 60.334(g)]

Monitor the steam or water to fuel ratio or other parameters that are continuously monitored as described in 40 CFR 60.334(a), (d) or (f) during the performance test required under 40 CFR 60.8, to establish acceptable values and ranges. Develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NOx emission controls. Include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Include any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information in the monitoring plan. Subpart GG. [40 CFR 60.334(g)]

Fuel nitrogen content monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor the nitrogen content of the fuel combusted in the turbine, if claiming an allowance for fuel bound nitrogen. Determine the nitrogen content of the fuel using methods described in 40 CFR 60.335(b)(9) or an approved alternative. Subpart GG. [40 CFR 60.334(h)(2)]

Which Months: All Year Statistical Basis: None specified

63 [40 CFR 60.334(h)(2)]

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### Group: PCS 0001 Exhaust Stack - Gas Turbine/HRSG No. 1

#### EQT 0007 1-1 GT - Gas Turbine

- 64 [40 CFR 60.334(h)(3)]  
Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor the total sulfur content of the fuel being fired in the turbine using any combination of the methods allowed by 40 CFR 63.334(h)(3)(i) and (ii). Subpart GG. [40 CFR 60.334(h)(3)]
- 65 [40 CFR 60.334(j)(3)]  
Which Months: All Year Statistical Basis: None specified  
Submit quarterly excess emissions report: Due by the 30th day following the end of each calendar quarter. Report periods during which an exemption provided in 40 CFR 60.332(1) is in effect. Report the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated. Subpart GG. [40 CFR 60.334(j)(3)]
- 66 [40 CFR 60.334(j)(4)]  
Include each period during which an exemption provided in 40 CFR 60.332(k) is in effect in the report required in 40 CFR 60.7(c). For each period, report the type, reasons, and duration of the firing of the emergency fuel. Subpart GG. [40 CFR 60.334(j)(4)]
- 67 [40 CFR 60.334(j)]  
Submit excess emissions reports and monitor downtime in accordance with 40 CFR 60.7(c). Report excess emissions for all periods of unit operation, including startup, shutdown and malfunction. Subpart GG. [40 CFR 60.334(j)]
- 68 [40 CFR 60.335]  
Determine compliance using the test methods and procedures specified in 40 CFR 60.335(a) through (c). Subpart GG.
- 69 [LAC 33.III.1311.C]  
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: Six-minute average

### Group: PCS 0002 Exhaust Stack - Gas Turbine/HRSG No. 2

Group Members: EQT 0006 EQT 0008

#### EQT 0006 1-2 DB/HRSG - Duct Burner/Heat Recovery Steam Generator

- 70 [40 CFR 60.42Da(a)(1)]  
Particulate matter (10 microns or less) <= 0.03 lb/MMBTU (13 ng/J) heat input. Subpart Da. [40 CFR 60.42Da(a)(1)]
- 71 [40 CFR 60.42Da(b)]  
Which Months: All Year Statistical Basis: None specified  
Opacity <= 20 percent, except for one 6-minute period per hour of not more than 27% opacity. Subpart Da. [40 CFR 60.42Da(b)]
- 72 [40 CFR 60.43Da(b)(1)]  
Which Months: All Year Statistical Basis: Six-minute average  
Sulfur dioxide <= 0.80 lb/MMBTU (340 ng/J) heat input. Subpart Da. [40 CFR 60.43Da(b)(1)]
- 73 [40 CFR 60.43Da]  
Which Months: All Year Statistical Basis: Thirty-day rolling average  
Sulfur dioxide >= 0 % reduction when emissions are less than 86 ng/J (0.20 lb/MMBTU) heat input. Subpart Da.
- 74 [40 CFR 60.44Da(d)(1)]  
Which Months: All Year Statistical Basis: Thirty-day rolling average  
Nitrogen oxides <= 1.6 lb/MWh (200 ng/J) heat input. Subpart Da. [40 CFR 60.44Da(d)(1)]
- 75 [40 CFR 60.47Da(a)]  
Which Months: All Year Statistical Basis: Thirty-day rolling average  
Apply to DEQ for a commercial demonstration permit when proposing to demonstrate an emerging technology. Subpart Da. [40 CFR 60.47Da(a)]
- 76 [40 CFR 60.48Da(c)]  
Comply with the nitrogen oxides emission standards under 40 CFR 60.44Da at all times except during periods of startup, shutdown, and malfunction. Subpart Da. [40 CFR 60.48Da(c)]

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### Group: PCS 0002    1-2 DB/HRSG - Duct Burner/Heat Recovery Steam Generator

- 77 [40 CFR 60.48Da(c)] Comply with the particulate matter emission standards under 40 CFR 60.42Da at all times except during periods of startup, shutdown, or malfunction. Subpart Da. [40 CFR 60.48Da(c)]
- 78 [40 CFR 60.48Da(d)] During emergency conditions in the principal company, do not operate an affected facility with a malfunctioning flue gas desulfurization system unless sulfur dioxide emissions are minimized in accordance with the requirements of 60.46Da(d)(1) through (d)(3). Subpart Da. [40 CFR 60.48Da(d)]
- 79 [40 CFR 60.48Date] Show compliance with the nitrogen oxides standards by completing a separate performance test at the end of each boiler operating day after the initial performance test, and calculating a new 30-day average emission rate. Subpart Da. [40 CFR 60.48Da(e)]
- 80 [40 CFR 60.48Da(e)] Show compliance with the sulfur dioxide standards by completing a separate performance test at the end of each boiler operating day after the initial performance test, and calculating a new 30-day average emission rate and percent reduction. Subpart Da. [40 CFR 60.48Date]
- 81 [40 CFR 60.48Da(f)] Schedule the initial performance test so that the first boiler operating day of the 30 successive boiler operating days is completed within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of the facility. Subpart Da. [40 CFR 60.48Da(f)]
- 82 [40 CFR 60.48Da(g)(1)] Determine compliance with the SO<sub>2</sub> and NO<sub>x</sub> emission standards by calculating the arithmetic average of all hourly emission rates for SO<sub>2</sub> and NO<sub>x</sub> for the 30 successive boiler operating days, except for data obtained during startup, shutdown, malfunction (NO<sub>x</sub> only), or emergency conditions (SO<sub>2</sub> only). Subpart Da. [40 CFR 60.48Da(g)(1)]
- 83 [40 CFR 60.48Da(g)(3)] Determine compliance with particulate matter emission limitations by calculating the arithmetic average of all hourly emission rates for particulate matter each boiler operating day, except for data obtained during startup, shutdown, and malfunction. Subpart Da. [40 CFR 60.48Da(g)(3)]
- 84 [40 CFR 60.48Da(i)] Calculate NO<sub>x</sub> emissions as  $1.194 \times 10^{-7}$  lb/scf ppm times the average hourly NO<sub>x</sub> output concentration in ppm (measured according to the provisions of 40 CFR 60.49Da(c)), times the average hourly flow rate (measured is scfm, according to the provisions of 40 CFR 60.49Da(l) or 60.49Da(m)), divided by the average hourly gross energy output (measured according to the provisions of 40 CFR 60.49Da(k)). Alternatively, for oil-fired and gas-fired units, NO<sub>x</sub> emissions may be calculated by multiplying the average hourly NO<sub>x</sub> emission rate in lb/MMBtu (measured by the CEMS required under 40 CFR 60.49Da(c) and (d)), by the hourly heat input rate (measured according to the provisions of 40 CFR 60.49Da(n)) and dividing by the result by the average gross energy output (measured according to the provisions of 40 CFR 60.49Da(k)) Subpart Da. [40 CFR 60.48Da(i)]
- 85 [40 CFR 60.48Da(j)] Determine compliance with the emission limits for NO<sub>x</sub> required by 40 CFR 60.44Da(a) by conducting the performance test required under 40 CFR 60.8 as specified in 40 CFR 60.48Da(j)(1), or using the continuous emission monitoring system specified under 40 CFR 60.49Da and meeting the requirements of 40 CFR 60.49Da as specified in 40 CFR 60.48Da(j)(2). Subpart Da. [40 CFR 60.48Da(j)]
- 86 [40 CFR 60.48Da(k)(3)] Determine compliance with the applicable NO<sub>x</sub> emissions limits by measuring the emissions combined with the emissions from the other unit(s) utilizing the common steam turbine; OR develop, demonstrate, and provide information satisfactory to DEQ on methods for apportioning the combined gross energy output from the steam turbine for each of the affected duct burners. Subpart Da. [40 CFR 60.48Da(k)(3)]

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### Group: PCS 0002 Exhaust Stack - Gas Turbine/HRSG No. 2

#### EQT 0006 1-2 DB/HRSG - Duct Burner/Heat Recovery Steam Generator

- 87 [40 CFR 60.48Da(m)] Calculate SO<sub>2</sub> emissions as  $1.660 \times 10^{-7}$  lb/scf-ppm times the average hourly SO<sub>2</sub> output concentration in ppm (measured according to the provisions of 40 CFR 60.49Da(b)), times the average hourly flow rate (measured according to the provisions of 40 CFR 60.49Da(l) or 40 CFR 60.49Da(m)), divided by the average hourly gross energy output (measured according to the provisions of 40 CFR 60.49Da(k)). Alternatively, for oil-fired and gas-fired units, SO<sub>2</sub> emissions may be calculated by multiplying the hourly SO<sub>2</sub> emission rate (in lb/MMBtu), measured by the CEMS required under 40 CFR 60.49Da, by the hourly heat input rate (measured according to the provisions of 40 CFR 60.49Da(n)), and dividing the result by the average gross energy output (measured according to the provisions of 40 CFR 60.49Da(k)). Subpart Da. [40 CFR 60.48Da(m)]
- 88 [40 CFR 60.49Da(d)] Oxygen or Carbon dioxide recordkeeping by electronic or hard copy continuously. Record the oxygen or carbon dioxide content of the flue gases at each location where sulfur dioxide or nitrogen oxides emissions are monitored. Subpart Da. [40 CFR 60.49Da(d)]
- 89 [40 CFR 60.49Da(d)] Oxygen or Carbon dioxide monitored by CMS continuously. Monitor the oxygen or carbon dioxide content of the flue gases at each location where sulfur dioxide or nitrogen oxides emissions are monitored. Subpart Da. [40 CFR 60.49Da(d)]
- 90 [40 CFR 60.49Da(f)(1)] Which Months: All Year Statistical Basis: One-hour average Obtain emission data for at least 18 hours in at least 22 out of 30 successive boiler operating days. If this minimum data requirement cannot be met with a continuous monitoring system, supplement emission data with other monitoring systems approved by DEQ or the reference methods and procedures as described in 40 CFR 60.49Da(h). Subpart Da. [40 CFR 60.49Da(f)(1)]
- 91 [40 CFR 60.49Da(s)] Submit plan: Due to DEQ for approval of a unit-specific monitoring plan for each monitoring system, at least 45 days before commencing certification testing of the monitoring systems. Address in the plan the requirements in 40 CFR 60.49Da(s)(1) through (6). Subpart Da. [40 CFR 60.49Da(s)]
- 92 [40 CFR 60.50Da(a)] Use as reference methods and procedures the methods specified in 40 CFR 60Da, Appendix A or the methods and procedures as specified in 40 CFR 60.50Da, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart Da. [40 CFR 60.50Da(a)]
- 93 [40 CFR 60.50Da(b)] Determine compliance with the particulate matter standards in 40 CFR 60.42Da using the methods and procedures specified in 40 CFR 60.50Da(b)(1) through (b)(3). Subpart Da. [40 CFR 60.50Da(b)]
- 94 [40 CFR 60.50Da(c)] Determine compliance with the sulfur dioxide standards in 40 CFR 60.43Da using the methods and procedures specified in 40 CFR 60.50Da(c)(1) through (c)(5). Subpart Da. [40 CFR 60.50Da(c)]
- 95 [40 CFR 60.50Da(d)] Determine compliance with the nitrogen oxides standard in 40 CFR 60.44Da using the methods and procedures specified in 40 CFR 60.50Da(d)(1) and (d)(2). Subpart Da. [40 CFR 60.50Da(d)]
- 96 [40 CFR 60.51Da(a)] Submit the performance test data from the initial performance test and subsequent performance test and from the performance evaluation of the continuous monitors (including the transmissometer). Subpart Da. [40 CFR 60.51Da(a)]
- 97 [40 CFR 60.51Da(b)] Submit report: Due semiannually for each six-month period. Submit the information specified in 40 CFR 60.51Da(b)(1) through (b)(9) for each 24-hour period. Subpart Da. [40 CFR 60.51Da(b)]
- 98 [40 CFR 60.51Da(c)] Submit report: Due semiannually for each six-month period. If the minimum quantity of emission data as required by 40 CFR 60.49Da is not obtained for any 30 successive boiler operating days, report the information specified in 40 CFR 60.51Da(c)(1) through (c)(5), obtained under the requirements of 40 CFR 60.48Da(h), for that 30-day period. Subpart Da. [40 CFR 60.51Da(c)]

## SPECIFIC REQUIREMENTS

AI ID: 857793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### Group: PCS 0002 Exhaust Stack - Gas Turbine/HRSG No. 2

#### EQT 0006 1-2 DB/HRSG - Duct Burner/Heat Recovery Steam Generator

- 99 [40 CFR 60.51Da(d)] Submit a signed statement if any standards under 40 CFR 60.43Da are exceeded during emergency conditions because of control system malfunction. Indicate if emergency conditions existed and requirements under 40 CFR 60.48Da(d) were met during each period. List the time periods the emergency condition existed; the electrical output and demand on the electric utility system and the affected facility; the amount of power purchased from interconnected neighboring utility companies during the emergency period; the percent reduction in emissions achieved; the atmospheric emission rate (ng/J) of the pollutant discharged; and the actions taken to correct control system malfunction. Submit semiannually for each six-month period. Subpart Da. [40 CFR 60.51Da(d)]
- 100 [40 CFR 60.51Da(h)] Submit a signed statement indicating if any changes were made in operation of the emission control system during periods of data unavailability for any periods for which opacity, sulfur dioxide or nitrogen oxides emissions data are not available. Submit semiannually for each six-month period. Subpart Da. [40 CFR 60.51Da(f)]
- 101 [40 CFR 60.51Da(h)] Submit a signed statement indicating whether the required continuous monitoring system calibration, span, and drift checks or other periodic audits have or have not been performed as specified; the data used to show compliance was or was not obtained in accordance with approved methods and procedures of 40 CFR 60 and is representative of plant performance; the minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors that were unavoidable; and compliance with the standards has or has not been achieved during the reporting period. Submit semiannually for each six-month period. Subpart Da. [40 CFR 60.51Da(h)]
- 102 [40 CFR 60.51Da(i)] Submit excess emissions report. Due quarterly. Submit opacity levels in excess of the applicable opacity standard and the date of such excesses. Subpart Da. [40 CFR 60.51Da(j)]
- 103 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel.).
- 104 [LAC 33:III.509.J.3] Which Months: All Year Statistical Basis: None specified
- For the duct burners only: BACT limit on VOC emissions. VOC, Total <= 0.02 lb/MMBTU.
- 105 [LAC 33:III.509.J.3] Which Months: All Year Statistical Basis: Hourly average
- For the duct burners only: BACT limit on carbon monoxide formation. Carbon monoxide <= 0.08 lb/MMBTU.
- 106 [LAC 33:III.509.J.3] Which Months: All Year Statistical Basis: Hourly average
- For the duct burners only: BACT limit on nitrogen oxide formation. Nitrogen oxides <= 0.10 lb/MMBTU.
- 107 [LAC 33:III.509.J.3] Which Months: All Year Statistical Basis: Hourly average
- For the duct burners only: BACT limit on particulate matter formation (ten microns or less). Particulate matter (10 microns or less) <= 0.01 lb/MMBTU.
- 108 [40 CFR 60.332(a)(1)] Which Months: All Year Statistical Basis: Hourly average

#### EQT 0008 1-2 GT - Gas Turbine

- Nitrogen oxides <= 0.0075 % by volume at 15% oxygen and on a dry basis in gases discharged to the atmosphere. Use analytical methods and procedures that are accurate to within 5 percent and are approved by DEQ to determine the nitrogen content of the fuel being fired per 40 CFR 60.335(a). Subpart GG. [40 CFR 60.332(a)(1)]
- Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### Group: PCS 0002 Exhaust Stack - Gas Turbine/HRSG No. 2

#### EQT 0008 1-2 GT - Gas Turbine

- 109 [40 CFR 60.333(a)] Option 1 of 2: Sulfur dioxide <= 0.015 % by volume at 15 percent oxygen and on a dry basis in gases discharged to the atmosphere. Subpart GG. [40 CFR 60.333(a)] Which Months: All Year Statistical Basis: None specified Option 2 of 2: Fuel sulfur content <= 0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]
- 110 [40 CFR 60.333(b)] Which Months: All Year Statistical Basis: None specified
- 111 [40 CFR 60.334(a)] Fuel monitored by CMS continuously, except as specified in 40 CFR 60.334(b). Monitor fuel consumption. Subpart GG. [40 CFR 60.334(a)]
- 112 [40 CFR 60.334(a)] Which Months: All Year Statistical Basis: None specified
- 113 [40 CFR 60.334(a)] Fuel recordkeeping by CMS continuously. Record fuel consumption. Subpart GG. [40 CFR 60.334(a)]
- 114 [40 CFR 60.334(a)] Ratio recordkeeping by CMS continuously. Record the ratio of water or steam to fuel being fired in the turbine. Subpart GG. [40 CFR 60.334(a)]
- 115 [40 CFR 60.334(g)] Ratio monitored by CMS continuously, except as specified in 40 CFR 60.334(b). Monitor the ratio of water or steam to fuel being fired in the turbine. Subpart GG. [40 CFR 60.334(a)]
- 116 [40 CFR 60.334(h)(2)] Which Months: All Year Statistical Basis: None specified
- 117 [40 CFR 60.334(h)(3)]
- 118 [40 CFR 60.334(j)(3)]
- 119 [40 CFR 60.334(j)(4)]
- 120 [40 CFR 60.334(j)]
- 121 [40 CFR 60.335]
- Option 1 of 2: Sulfur dioxide <= 0.015 % by volume at 15 percent oxygen and on a dry basis in gases discharged to the atmosphere. Subpart GG. [40 CFR 60.333(a)]
- Which Months: All Year Statistical Basis: None specified
- Option 2 of 2: Fuel sulfur content <= 0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]
- Which Months: All Year Statistical Basis: None specified
- Fuel monitored by CMS continuously, except as specified in 40 CFR 60.334(b). Monitor fuel consumption. Subpart GG. [40 CFR 60.334(a)]
- Which Months: All Year Statistical Basis: None specified
- Fuel recordkeeping by CMS continuously. Record fuel consumption. Subpart GG. [40 CFR 60.334(a)]
- Ratio recordkeeping by CMS continuously. Record the ratio of water or steam to fuel being fired in the turbine. Subpart GG. [40 CFR 60.334(a)]
- Ratio monitored by CMS continuously, except as specified in 40 CFR 60.334(b). Monitor the ratio of water or steam to fuel being fired in the turbine. Subpart GG. [40 CFR 60.334(a)]
- Monitor the steam or water to fuel ratio or other parameters that are continuously monitored as described in 40 CFR 60.334(a), (d) or (f) during the performance test required under 40 CFR 60.8, to establish acceptable values and ranges. Develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NO<sub>x</sub> emission controls. Include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Include any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information in the monitoring plan. Subpart GG. [40 CFR 60.334(g)]
- Fuel nitrogen content monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor the nitrogen content of the fuel combusted in the turbine, if claiming an allowance for fuel bound nitrogen. Determine the nitrogen content of the fuel using methods described in 40 CFR 60.335(b)(9) or an approved alternative. Subpart GG. [40 CFR 60.334(h)(2)]
- Which Months: All Year Statistical Basis: None specified
- Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor the total sulfur content of the fuel being fired in the turbine using any combination of the methods allowed by 40 CFR 63.334(h)(3)(i) and (ii). Subpart GG. [40 CFR 60.334(h)(3)]
- Which Months: All Year Statistical Basis: None specified
- Submit quarterly excess emissions report. Due by the 30th day following the end of each calendar quarter. Report periods during which an exemption provided in 40 CFR 60.332(f) is in effect. Report the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated. Subpart GG. [40 CFR 60.334(j)(3)]
- Include each period during which an exemption provided in 40 CFR 60.332(k) is in effect in the report required in 40 CFR 60.7(c). For each period, report the type, reasons, and duration of the firing of the emergency fuel. Subpart GG. [40 CFR 60.334(j)(4)]
- Submit excess emissions reports and monitor downtime in accordance with 40 CFR 60.7(c). Report excess emissions for all periods of unit operation, including startup, shutdown and malfunction. Subpart GG. [40 CFR 60.334(j)]
- Determine compliance using the test methods and procedures specified in 40 CFR 60.335(a) through (c). Subpart GG.

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
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Air - Title V Regular Permit Renewal

### Group: PCS 0002 Exhaust Stack - Gas Turbine/HRSG No. 2

#### EQT 0008 1-2 GT - Gas Turbine

- 122 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: Six-minute average

#### EQT 0003 2-1 - Exhaust Stack-Simple Cycle Gas Turbine No. 3

- 123 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or tapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified  
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: Six-minute average  
Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.  
Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO<sub>2</sub>/ton H<sub>2</sub>SO<sub>4</sub>, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H<sub>2</sub>SO<sub>4</sub> was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.  
Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.  
Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.  
BACT limit on exhaust gas concentration of carbon monoxide (only applied during normal operations as defined in this permit). Carbon monoxide <= 9.0 ppmv (dry basis).  
Which Months: All Year Statistical Basis: Hourly average  
BACT limit on exhaust gas concentration of VOC (only applied during normal operations as defined in this permit). VOC, Total <= 1.4 ppmv (dry basis).  
Which Months: All Year Statistical Basis: Hourly average

## SPECIFIC REQUIREMENTS

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Activity Number: PER20050001

Permit Number: 2160-00112-V3

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### EQT 0003 2-1 - Exhaust Stack Simple Cycle Gas Turbine No. 3

- 131 [LAC 33:II.509.J.3] BACT limit on exhaust gas concentration of nitrogen oxides (only applied during normal operations as defined in this permit). Nitrogen oxides <= 9.0 ppmv (dry basis).  
Which Months: All Year. Statistical Basis: Hourly average

### EQT 0004 9-00 - Cooling Tower

- 132 [LAC 33:II.509.J.3] Employ BACT to control emissions of particulate matter with average diameter less than 10 micron (PM10). For PM10 emissions emanating from the water-cooling tower, BACT was determined as drift eliminators.

### GRP 0002 CS - Combustion Sources (Combustion Turbines and Duct Burners)

Group Members: EQT 0003PCS 0001 PCS 0002

- 133 [40 CFR 75.10(a)(2)] To determine NOX emissions, install, certify, operate, and maintain in accordance with all the requirements of 40 CFR 75 a NOX-diluent continuous emission monitoring system (consisting of a NOX pollutant concentration monitor and an O2 or CO2 diluent gas monitor) with an automated data acquisition and handling system for measuring and recording NOX concentration (in ppm), O2 or CO2 concentration (in percent O2 or CO2), and NOX emission rate (in lb/mmBtu) discharged to the atmosphere, except as provided in 40 CFR 75.12 and 75.17 and subpart E of 40 CFR 75. The owner or operator shall account for total NOX emissions, both NO and NO2, either by monitoring for both NO and NO2 or by monitoring for NO only and adjusting the emissions data to account for NO2. [40 CFR 75.10(a)(2)]  
Determine CO2 emissions by using one of the options in 40 CFR 75.10(a)(3)(i), (ii), or (iii), except as provided in 40 CFR 75.13 and subpart E of 40 CFR 75. [40 CFR 75.10(a)(3)]

The owner or operator shall ensure that each continuous emission monitoring system meets the equipment, installation, and performance specifications in appendix A to 40 CFR 75, and is maintained according to the quality assurance and quality control procedures in appendix B to 40 CFR 75; and shall record SO2 and NOX emissions in the appropriate units of measurement (i.e., lb/hr for SO2 and lb/MM Btu for NOX). [40 CFR 75.10(b)]

The owner or operator shall determine and record the heat input rate, in units of MM Btu/hr, to each affected unit for every hour or part of an hour any fuel is combusted following the procedures in appendix F to 40 CFR 75. [40 CFR 75.10(c)]  
The owner or operator shall ensure that all continuous emission and opacity monitoring systems are in operation and monitoring unit emissions or opacity at all times that the affected unit combusts any fuel except as provided in 40 CFR 75.11(e) and during periods of calibration, quality assurance, or preventive maintenance, performed pursuant to 40 CFR 75.21 and appendix B of 40 CFR 75, periods of repair, periods of backups of data from the data acquisition and handling system, or recertification performed pursuant to 40 CFR 75.20. The owner or operator shall also ensure, subject to the aforementioned exceptions, that all continuous opacity monitoring systems are in operation and monitoring opacity during the time following combustion when fans are still operating, unless fan operation is not required to be included under any other applicable Federal or State regulation, or permit. The owner or operator shall ensure that the requirements of 40 CFR 75.10(d)(1), (2), and (3), as applicable, are met. [40 CFR 75.10(d)]

The owner or operator shall ensure that each continuous emission monitoring system is capable of accurately measuring, recording, and reporting data, and shall not incur an exceedance of the full scale range, except as provided in sections 2.1.1.5, 2.1.2.5, and 2.1.4.3 of appendix A to 40 CFR 75. [40 CFR 75.10(f)]

## SPECIFIC REQUIREMENTS

AI ID: 857793 - Entergy Louisiana LLC - Perryville Generating Station  
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Air - Title V Regular Permit Renewal

### GRP 0002 CS - Combustion Sources (Combustion Turbines and Duct Burners)

- 139 [40 CFR 75.10(g)]  
The owner or operator shall record and the designated representative shall report the hourly, daily, quarterly, and annual information collected under the requirements of 40 CFR 75 as specified in subparts F and G of 40 CFR 75. [40 CFR 75.10(g)]
- 140 [40 CFR 75.11(d)(2)]  
Measure and record SO<sub>2</sub> emissions by providing information satisfactory to the Administrator using the applicable procedures specified in appendix D to 40 CFR 75 for estimating hourly SO<sub>2</sub> mass emissions. [40 CFR 75.11(d)(2)]
- 141 [40 CFR 75.]  
Comply with the applicable provisions of Subpart C-Operation and Maintenance Requirements, Subpart D-Missing Data Substitution Procedures, Subpart F-Recordkeeping Requirements, and Subpart G-Reporting Requirements.
- 142 [LAC 33:III.501.C.6]  
To ensure compliance with permitted emission limits, a stack test shall be performed on the gas turbines and the duct burners, Emission Points 1-1, 1-2, and 2-1. The following test methods and procedures from New Source Performance Standards, 40 CFR 60, Appendix A, shall be used:  
a. PM, NO<sub>x</sub>, and SO<sub>2</sub> by methods and procedures specified by 40 CFR 60.48a(f) and 60.335(c). □  
b. Carbon Monoxide by Method 10-Determination of Carbon Monoxide emissions from Stationary Sources. X  
c. Opacity by Method 9-Visual Determination of Opacity of Emissions from Stationary Sources. □  
d. VOC by Method 18 - Measurement of Gaseous Organic Compound Emissions by Gas Chromatography.
- 143 [LAC 33:III.501.C.6]  
Permittee shall ensure compliance with the opacity and particulate emission limits of this permit by visually inspecting emissions from the gas turbines and duct burners, Emission Points 1-1, 1-2, and 2-1, on a weekly basis when the units are in operation. If visible emissions above normal operations are detected, then, within three (3) working days, the permittee shall conduct a six-minute opacity reading in accordance with EPA Reference Method 9. Records of visible emission checks shall include emission point ID, date visual check was performed, a record if visible emissions were detected, and a record of any Method 9 testing conducted and the results of any Method 9 test. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 144 [LAC 33:III.501.C.6]  
Formaldehyde: To determine compliance with the reported emission limits, conduct an initial stack test for formaldehyde on the simple cycle turbine (2-1) and on one of the combined cycle units (1-1 or 1-2). Conduct the tests under normal operating conditions with the duct burners online. Keep the results of the stack tests onsite and submit a report within 60 days to the Office of Environmental Compliance. The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR 77. [LAC 33:III.505, 40 CFR 72.9(e)(1)]
- 145 [LAC 33:III.505]  
An allowance shall not be deducted, in order to comply with the requirements under 40 CFR 72.9(c)(1)(i), prior to the calendar year for which the allowance was allocated. [LAC 33:III.505, 40 CFR 72.9(c)(5)]
- 146 [LAC 33:III.505]  
Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority, and have an Acid Rain Permit. [LAC 33:III.505, 40 CFR 72.9(a)(2)]

## **SPECIFIC REQUIREMENTS**

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
Permit Number: 2160-00112-V3  
Air - Title V Regular Permit Renewal

### **GRP 0002 CS : Combustion Sources (Combustion Turbines and Duct Burners)**

- Keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority. [.]  
1.) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24, provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.   
2.) All emissions monitoring information, in accordance with 40 CFR 75, provided that to the extent that part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.   
3.) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program.  
4.) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

[LAC 33:III.505, 40 CFR 72.9(f)(1)]

The owners and operators shall hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit and comply with the applicable Acid Rain emissions limitation for sulfur dioxide. [LAC 33:III.505, 40 CFR 72.9(c)(1)]

The designated representative shall submit a complete Acid Rain permit application (including a compliance plan) in accordance with the deadlines specified in 40 CFR 72.30, a complete reduced utilization plan if required under 40 CFR 72.43, and any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit. [LAC 33:III.505, 40 CFR 72.9(a)(1)]

The designated representative shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR 75 and Subpart I of 40 CFR 72. [LAC 33:III.505, 40 CFR 72.9(f)(2)]

Comply with the monitoring requirements as provided in 40 CFR 75. [LAC 33:III.505, 40 CFR 72.9(b)]

The owners and operators of an affected unit that has excess emissions in any calendar year shall pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR 77, and comply with the terms of an approved offset plan, as required by 40 CFR 77. [LAC 33:III.505, 40 CFR 72.8(e)(2)]

For combustion turbines and duct burners, employ BACT to control emissions of PM10, NOX, CO and VOC. For these devices, BACT was determined as use of low NOX burners and/or selective catalytic reduction (SCR) in combination with proper operating and maintenance practices, and the use of clean burning natural gas as fuel. Separate BACT limits have been established for startup/shutdown (SU/SD) and normal operations. In addition, for each combustion source emission point, the maximum hourly emission rate pertains only to SU/SD and the average hourly emission rate pertains to normal operations.

The duct burners shall only be used during periods of normal operations (as defined in this permit) and only when the SCR unit is functioning properly. The duct burner BACT limits shall apply only to normal operation.

### **GRP 0004 Nos. 1 & 2 SUSD - SU/SD Gas Turbine/HRSG Nos. 1 and 2**

Group Members: PCS 0001 PCS 0002

## SPECIFIC REQUIREMENTS

AI ID: 85793 - Entergy Louisiana LLC - Perryville Generating Station  
Activity Number: PER20050001  
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### GRP 0004 Nos. 1 & 2 SU/SD - SU/SD1 Gas Turbine/HRSG Nos. 1 and 2

156 [LAC 33:II.501.C.6] NOx, CO, and VOC emissions associated with startup and shutdown (SU/SD) as defined in this permit shall be limited to the permitted pound per hour (lb/hr) emission rates listed in the emission rates table. The number of cold starts, warm starts, and hot starts shall not be limited provided that compliance with the permitted maximum annual emission rates in ton per year (TPY) is maintained in each calendar year. Limits are given on a per turbine basis. No later than 120 days after permit issuance, permittee shall develop and implement a written startup, shutdown, and malfunction (SSM) plan that describes procedures for operating the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment. The facility's standard operating procedures (SOP) manual may be used if it addresses the aforementioned provisions. The SSM plan (or SOP manual) shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

### GRP 0005 No. 3 SU/SD - SU/SD2 Simple Cycle Gas Turbine No. 3

Group Members: EQR 0003

157 [LAC 33:II.501.C.6] NOx, CO, and VOC emissions associated with startup and shutdown (SU/SD) as defined in this permit shall be limited to the permitted pound per hour (lb/hr) emission rates listed in the emission rates table. The number of cold starts, warm starts, and hot starts shall not be limited provided that compliance with the permitted maximum annual emission rates in ton per year (TPY) is maintained in each calendar year. Limits are given on a per turbine basis. No later than 120 days after permit issuance, permittee shall develop and implement a written startup, shutdown, and malfunction (SSM) plan that describes procedures for operating the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment. The facility's standard operating procedures (SOP) manual may be used if it addresses the aforementioned provisions. The SSM plan (or SOP manual) shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

### UNF 0001 Entire Facility - Entire Facility

- 158 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.  
159 [40 CFR 70.5(a)(1)(iii)] Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]  
160 [40 CFR 70.6(a)(3)(iii)(A)] Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]  
161 [40 CFR 70.6(a)(3)(iii)(B)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]

## SPECIFIC REQUIREMENTS

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### UNF 0001 Entire Facility - Entire Facility

- 162 [40 CFR 70.6(c)(5)(iv)]  
Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 163 [40 CFR 72.9(c)(1)(i)]  
Entergy's Perryville Generating Station shall secure one allowance for each ton of SO2 emitted per year. At the end of the year, each used allowance is retired and cannot be used again. EPA will record allowance transfers that are used for compliance and ensure that NAME OF PLANT's emissions do not exceed the number of allowances it holds via the Allowance Tracking System (ATS). See Subparts C & D of part 73.
- [40 CFR 72.9(c)(1)(i)]  
Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 164 [LAC 33:III.1103]  
Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 165 [LAC 33:III.1303.B]  
Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 166 [LAC 33:III.2113.A]  
Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 167 [LAC 33:III.219]  
Comply with the requirements of PSD-LA-655(M-3). This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-655(M-3).
- 168 [LAC 33:III.509]  
Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 169 [LAC 33:III.5609.A.1.b]  
Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- 170 [LAC 33:III.5609.A.2.b]  
Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 171 [LAC 33:III.5609.A.3.b]  
Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611 Tables 5, 6, and 7.
- 172 [LAC 33:III.5609.A]  
Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 173 [LAC 33:III.5901.A]  
Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.591.3 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 174 [LAC 33:III.5907]  
Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division.
- 175 [LAC 33:III.5911.A]  
Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate.
- 176 [LAC 33:III.5911.C]  
Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- 177 [LAC 33:III.919.D]

## **SPECIFIC REQUIREMENTS**

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